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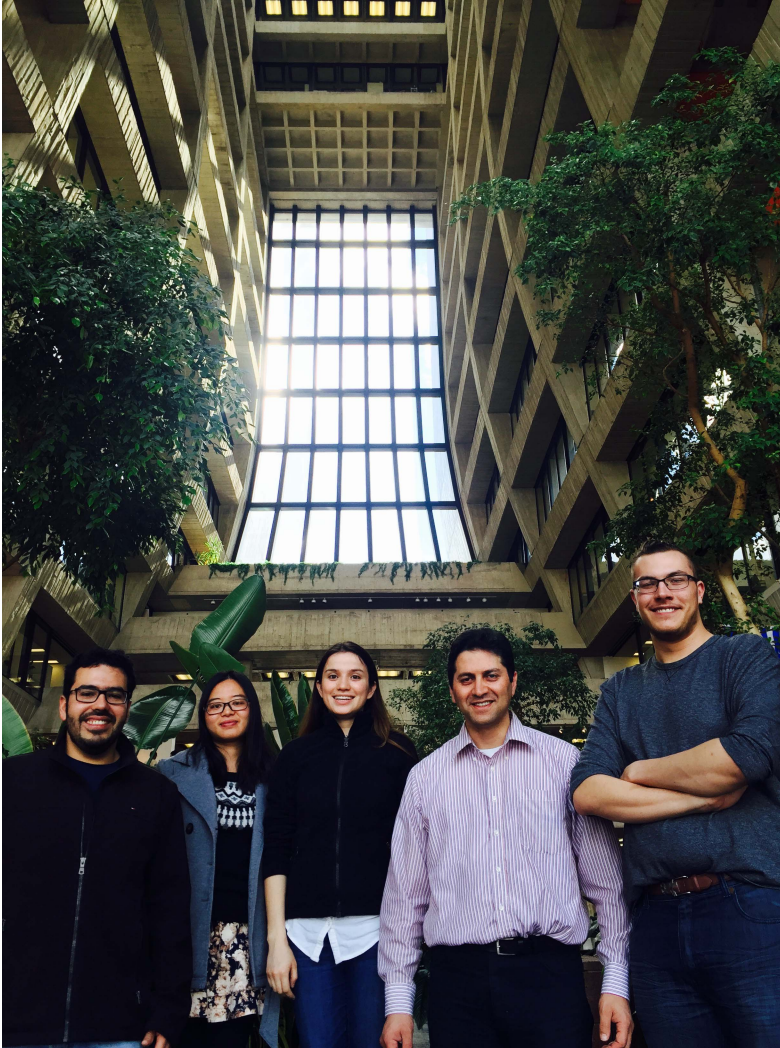
OPOS for NOvA

Anna Mazzacane for the OPOS team

NOvA Collaboration Meeting

31 March 2016

OPOS team



OPOS in the Fermilab News
March 21, 2016 | [Hannah Ward](#)

Collaboration for improved operations:
how OPOS supports the experiments

<http://news.fnal.gov/2016/03/collaboration-improved-operations-opos-supports-experiments/>

Current OPOS team - from left:

Anna Mazzacane – Group Leader (not pictured)

Felipe Andres Felipe Alba Hernandez from Colombia

Qiulan Huang from China

Paola Buitrago from Colombia

Vito Di Benedetto from Italy

Tyler Propp from the US

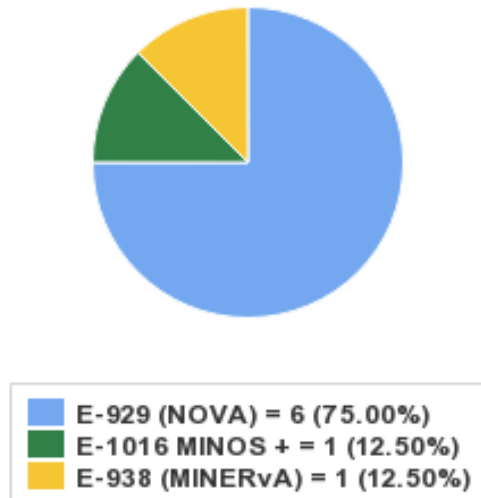
Michele Fattoruso from Italy (not pictured - starting next week)

GREAT TEAM!

What are we doing now?

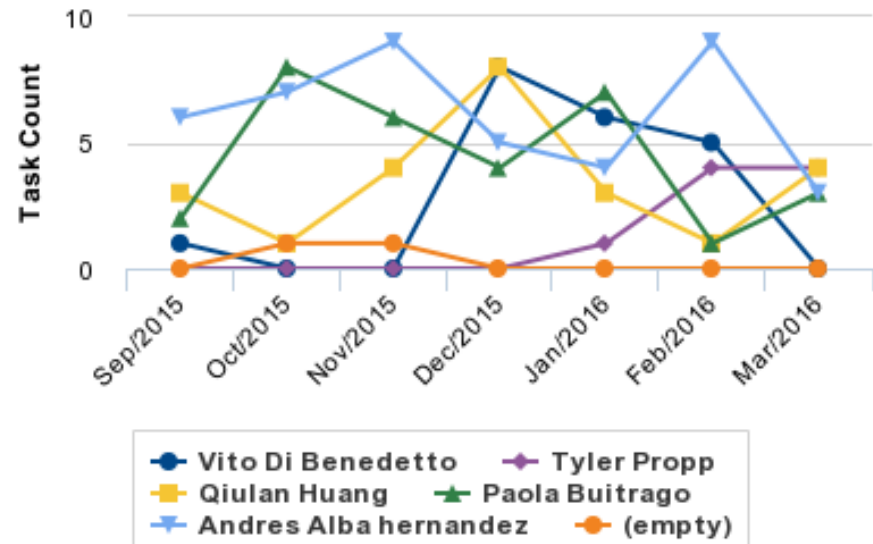


SCS Production Processing Requested Items



Other experiments:
Mu2e – Offsite monitoring
Dune – MC processing (paused)
LArIAT – Setup production workflow
MicroBooNE – Memory profiling

SCS Production Processing Requested Item Assignments - Last 6 Months





What are we doing now for NOvA?



- Raw2Root Keepup
 - Usually very smooth processing – high success rate
- Reconstruction Keepup
 - Offsite jobs – need to increase the number of sites accepting NOvA jobs
- Nue Cosmics processing on the OSG
 - Among manual and backprocessing requests – sometimes not well tested procedures
- Offline production monitoring
 - The aim is to help the collaboration increasing efficiency and control job submission
- NOvA ND MC Reconstruction on HEP Cloud –
 - See Gabriele's talk

Job status from POMS https://pomsgpvm01.fnal.gov/poms/show_campaigns

Campaign ?			Active Jobs			Jobs in 1.000000 day ending 2016-03-31 14:09		
Actions	Experiment	Name	Idle ?	Running ?	Held ?	Completed ?	Located ?	Removed ?
	nova	Nova raw2root keepup	0	0	0	232	13	0
	nova	NOvA Reco Keepup	45	44	0	2	140	0

What else?



- Contributing to POMS development for job submission, monitoring and debugging. We are testing the job submission right now.
- Improving general script submission to help users submitting jobs for production processing (will converge in the POMS project).
- Developing a monitoring system for troubleshooting jobs running at Fermilab Grid clusters and the OSG (as part of the Landscape project).
- Working with security team and USCD group to manage service certificate for experiment production.
- Transfer best practices, knowledge and experience for production processing (will translate in a more and detailed documentation).
- Working to facilitate the communication between experiments and computing and meet needs and goals.

What's next? (From SCPMT Review - 2016)



- SCPMT 2016 Review Report: *“SCD should continue providing OPOS”*.
- SCPMT 2016 Review Response: *“The OPOS service will be suspended in FY17 because of budget limitations”*.
- OPOS re-organization is under discussion, meanwhile operations continue.
- Our goal is to have experiments continue to benefit from the past years of work of OPOS.
- We will continue meeting with experiments to successfully assist them with their offline production activities.



How We Can Improve Working Together?



- NOvA and OPOS are working together since the beginning (July 2014 - OPOG).
- Well established collaboration and cooperation between NOvA production and OPOS team.
- With the near future re-organization of OPOS we need to identify NOvA people who will be responsible for running production.
- OPOS will transfer tools and knowledge to them and will continue supporting NOvA production team.

Acknowledgement



- NOvA Production Team
- SCD teams: OPOS, FIFE, HEP Cloud, Data Management Teams

THANK YOU!